CLAIMS:

1. A method of resisting corrosion of metals in concrete comprising,

introducing into concrete-making materials components of a compound capable of sequestering chloride ions,

establishing said concrete having metal elements embedded therein.

allowing said concrete to set.

2. The method of claim 1 including

employing as said compound a compound capable of establishing a corrosion resistant oxide layer on said embedded metal elements.

3. The method of claim 1 including

effecting said chloride sequestration in a low-solubility compound.

4. The method of claim 3 including

employing a nitrite-containing compound as said compound.

5. The method of claim 1 including

introducing said components of solid compound into mixing water for making said concrete.

6. The method of claim 5 including

introducing said components into said mixing water in a solution.

7. The method of claim 1 including

employing in said components at least one material selected from the group consisting of $NaAlO_4$, $Ca(NO_2)_2$ and $NaNO_2$.

8. The method of claim 7 including

reacting $Ca(OH)_2$ with said components.

9. The method of claim 8 including

introducing said $Ca(OH)_2$ as a said component.

10. The method of claim 8 including

producing said $Ca(OH)_2$ by hydration of said concrete.

11. The method of claim1 including

employing as said components a source of aluminum other than $CaO \cdot Al_2O_3$ and $3CaO \cdot Al_2O_3$.

12. The method of claim 11 including

employing as said source of aluminum a material selected from the group consisting of alumina, aluminates and alumina hydroxides.

13. The method of claim 1 including

employing in said components a material selected from the group consisting of nitrite salts and nitrate salts.

14. The method of Claim 1 including

employing as said compound a compound selected from the group consisting of

$3CaO \cdot Al_2O_3 \cdot Ca(NO_2)_2 \cdot nH_2O$; $3CaO \cdot Al_2O_3 \cdot Ca(NO_3)_2 \cdot nH_2O$; $3CaO \cdot Fe_2O_3 \cdot Ca(NO_2)_2 \cdot nH_2O$; and $3CaO \cdot Fe_2O_3 \cdot Ca(NO_3)_2 \cdot nH_2O$

wherein n= O to 24.

15. A method of resisting corrosion of metals in a concrete structure comprising,

creating in a slurry containing at least one compound capable of sequestering chloride ions,

positioning said slurry adjacent to said concrete structure, and

sequestering chloride ions in said compound.

16. The method of Claim 15 including

creating an overlay on said concrete structure with said slurry and allowing said slurry to set.

17. The method of Claim 15 including

securing said overlay to said concrete structure to permit chloride ion exchange therebetween.

18. The method of Claim 17 including

applying a preformed panel over said slurry.

19. The method of Claim 8 including

providing said preformed panel with lower porosity than said slurry layer.

20. The method of Claim 16 including

employing in said slurry at least one material selected from the group consisting of $NaAlO_4$, $Ca(NO_2)_2$ and $NaNO_2$.

21. The method of Claim 20 including

employing $Ca(OH)_2$ in said compound.

22. The method of Claim 16 including

employing in said compound an aluminum constituent selected from the group consisting of alumina, aluminate and alumina hydroxide.

23. The method of Claim 22 including

employing in said source of aluminum a material other than $CaO \cdot Al_2O_3$ and $3CaO \cdot Al_2O_3$.

24. The method of Claim 16 including

employing as said compound a compound capable of establishing a corrosion resistant oxide layer on embedded metal elements.

25. The method of Claim 16 including

employing a nitrite-containing compound as said compound.

26. The method of Claim 16 including

employing as said compound a compound selected from the group consisting of

$3CaO \cdot Al_2O_3 \cdot Ca(NO_2)_2 \cdot nH_2O$; $3CaO \cdot A1_2O_3 \cdot Ca(NO_3)_2 \cdot nH_2O$; $3CaO \cdot Fe_2O_3 \cdot Ca(NO_2)_2 \cdot nH_2O$; and $3CaO \cdot Fe_2O_3 \cdot Ca(NO_3)_2 \cdot nH_2O$.

wherein n = 0 to 24.

27. A method of resisting corrosion of metals in a concrete structure comprising

creating a solution containing a soluble source of alumina and a material selected from the group consisting of $Ca(NO_2)_2$ and $NaNO_2$,

causing said source of alumina and said materials selected from the group to react with each other and with $Ca(OH)_2$ contained in the concrete structure to create a chloride sequestering compound, and

effecting said sequestration of chloride ions by said compound in said concrete structure.

28. The method of Claim 27 including

effecting said introduction of said solution under pressure.

29. The method of Claim 27 including

employing capillary suction to introduce said solution into said concrete structure.

30. The method of Claim 27 including

effecting by said reaction liberation of nitrite ions which serve to effect creation of an oxide protective layer on said metals.

31. The method of Claim 30 including

said metals being metal reinforcing elements contained within said concrete.